

ACCESSION NR: AT4035838

S/2534/64/000/024/0129/0140

AUTHOR: Zenkin, G. M.; Il'in, A. G.

TITLE: Radial burning of trees in the vicinity of the explosion of the Tungus meteorite

SOURCE: AN SSSR. Komitet po meteoritam. Meteoritika, no. 24, 1964. Trudy* Desyatoy Meteoritnoy konferentsii v Leningrade 29 maya - 1 iyunya 1962 g., 129-140

TOPIC TAGS: meteorite, Tungus meteorite, meteorite explosion

ABSTRACT: Everywhere in the neighborhood of the explosion of the Tungus meteorite, in an area with a radius of approximately 20 km from the epicenter, there still remain obvious traces of a forest fire which undoubtedly accompanied the 1908 explosion and which does not show the characteristics of an ordinary forest fire. The reason for the fire was light radiation from the explosion and the fire developed simultaneously over a large area (with a radius of more than 9 km from the site of the explosion) in places where conditions were favorable for combustion (underbush, dry branches, etc.). The light radiation of the explosion also caused the overheating and destruction of the cambium of small larch branches on that side of the branches turned toward the center of the explosion. The direction of damage to

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the branches has made it possible to compute the coordinates of the radiation source with a rather high accuracy, leading to the conclusion that the principal source of radiation was the explosion of a body in the air. The data do not make it possible to estimate the influence of light radiation of the body in the atmosphere before the explosion or determine the configuration of the light source, but further collection of data probably would furnish an answer to these questions. The relative locations of the center of flattening of the forest suggest that the path followed by the body was from southeast to northwest. Precise determination of the path requires that the influence of the wind be taken into account. The centers of radiation and forest flattening are indicated in Fig. 1 of the Enclosure. An estimate of the luminous energy of the explosion has been made, but the accuracy is very low. "In conclusion the authors wish to thank K. P. Florenskiy, chief of the expedition, and other participants, for their useful advice". Orig. art. has: 7 figures and 2 tables.

ASSOCIATION: Komitet po meteoritam, Akademiya nauk SSSR (Committee on Meteorites, SSSR Academy of Sciences)

SUBMITTED: 00

DATE ACQ: 28May64

ENCL: 01

SUB CODE: AA
Card 2/3

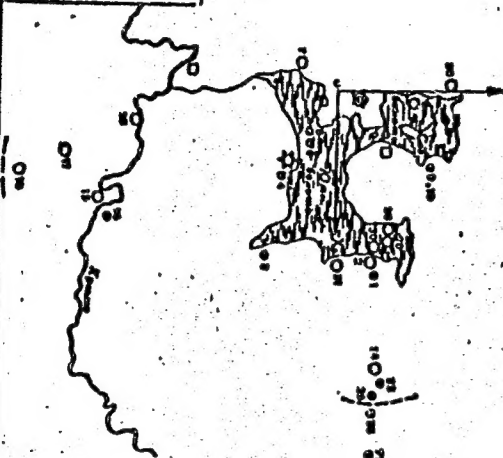
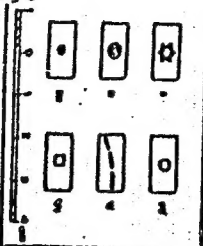
NO REF SOV: 008

OTHER: 000

ACCESSION NR: AT4035838

ENCLOSURE :01

Sketch map of the region of the center of the Tungus explosion. I - center of radiation; II - center of forest flattening; III - larches whose branches experienced heat damage; IV - larches used for computation of the coordinates of the radiation source; V - limits of detection of heat damage; VI - huts.



Card 3/3

MAKSIMOV, V.V.; ZENKIN, G.M.; BYZOV, A.L.

Study of the functional properties of the two types of bipolars
in the frog retina. Biofizika 10 no.1:141-147 '65.

(MIRA 18:5)

1. Institut problem peredachi informatsii AN SSSR, Moskva.

ZENKIN, G.M.; IL'IN, A.G.

Radial burns on trees in the explosion region of the
Tunguska meteorite. Meteoritika no.24:129-140 '64.

(MIRA 17:5)

ZENKIN, G.M.; MAKSIMOV, V.V.

Study of the horizontal interaction at the level of slow bipolars of the frog retina. Report No.2. Quantitative characteristics of interaction. Biofizika 9 no.6:718-725 '64.

(MIRA 18:7)

1. Moskovskiy fiziko-tekhnicheskii institut i Institut problem peredachi informatsii AN SSSR, Moskva.

PLEKHANOV, G.F.; VASIL'YEV, N.V.; DEMIN, D.V.; ZHURAVLEV, V.K.; ZENKIN, G.M.;
KOVALEVSKIY, A.F.; L'VOV, Yu.A.; FAST, V.G.; TUL'SKIY, A.S. [deceased]

Some results of the study of the problem of the Tunguska meteorite.
Gobl.i geofiz. no.1:111-123 '63. (MIRA 16:4)

1. Tomskiy meditsinskiy institut, Nauchno-issledovatel'skiy institut
Tomskogo politekhnicheskogo instituta i Institut geologii i geofiziki
Sibirskogo otdeleniya AN SSSR.
(Podkamennaya Tunguska Valley—Meteorites)

ZENKIN, G.M.

Effect of dispersed light in experiments on the retina. Biofizika
10 no.5:901-903 '65. (MIRA 18:10)

1. Institut problem peredachi informatsii AN SSSR, Moskva.

ZENKIN, N.I., inzh.; KIRPICHNIKOV, V.M., kand. tekhn. nauk

Generating transient electromagnetic moments of asynchronous
motors. Izv. vys. ucheb. zav.; gor. zhur. '7 nn. 3:171-178
'64. (MIRA 17:8)

1. Ural'skiy politekhnicheskiy institut imeni Kirova. Re-
komendovana kafedroy vychislitel'noy tekhniki.

VOLKOV, G.M.; KRAPCHIN, I.P.; SEMENOV, Lev Vladimirovich,
retsensent; ZENKIS, Yar Samoylovich, doktor ekon. nauk,
otv. red.

[Problems in the economics of the mining and processing
of brown coals] Problemy ekonomiki dobychi i pererabotki
burykh uglei. Moskva, Nedra, 1964. 107 p.
(MIRA 17:8)

MEL'NIKOV, N.V., akademik; ZENKIS, Ya.S., doktor ekonom. nauk

Means for constructing fuel and power balance of the U.S.S.R.
Teploenergetika 11 no.3:2-6 Mr '64. (MIRA 17:6)

1. Gosudarstvennyy komitet po toplivnoy promyshlennosti pri
Gosplane SSSR.

ZENKIN, G.M.

Horizontal interaction at the level of bipolar cells of the
frog retina. Biofizika 10 no.6:1055-1062 '65.

(MIRA 19:1)

1. Institut problem peredachi informatsii AN SSSR, Moskva.
Submitted June 24, 1965.

L 21919-66

ACC NR: AP6014451

SOURCE CODE: UR/0239/65/051/010/1188/1191

AUTHOR: Maksimov, V. V.; Zenkin, G. M.

ORG: Institute of Problems of Information Transmission, AN SSSR, Moscow (Institut problem peredachi informatsii AN SSSR)

TITLE: Spreading depression of activity in the bipolar cells of the frog retina

SOURCE: Fiziologicheskii zhurnal SSSR, v. 51, no. 10, 1965, 1188-1191

TOPIC TAGS: animal physiology, vision, experiment animal, neurophysiology

ABSTRACT: Waves of depression of activity of the toad retina similar to the cortical depression described by Leao were observed by P. Gouras (Am. J. Physiol. 195, No 1, 28, 1958). Depression waves of the same type were observed on isolated eyes of Rana ridibunda frogs in experiments in which changes in the potential of bipolar cells of the retina were measured. The depression waves, which were accompanied by a lightening of the retina and appearance of a pink color in it developed spontaneously: they could not be induced by the methods applied by Gouras and commonly used in work on the cortex. Their occurrence depended on the preparation of the retina, the conditions of illumination (they developed more frequently in darkness than during exposure to light), and the condition of the animals. The two-phase electric reaction to light with a reversal of polarity which was observed in connection with the depression wave indicated that a change in the type of functional activity of the slow bipolars was involved. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 18Feb64 / ORIG REF: 011 / OTH REF: 010
Card 1/1 nst UDC: 612.843+612.84

ZENKIN, I. V.

FDD

171162

from clamp completes circuit through lamp and bell, with ground return to shaft. If passage of steam causes excessive displacement, bell and light give warning.

USSR/Engineering - Steam Turbines
(Contd)

FDD

Sep 50

Describes signaling device introduced by Comrade Pikulin in the Kul'sarin Gen Elec Power Sta to eliminate danger to personnel from excessive axial displacement of steam turbine rotors. One wire between it and face of rotor shaft. One wire

171162

"Energet Byull" No 9, pp 28, 29

"Signaling Device to Prevent an Inadmissible Degree of Displacement in a Turbine Rotor,"
I. V. Zenkin

USSR/Engineering - Steam Turbines
Signaling Devices

Sep 50

SHUBENKO, V.A.; ZENKIN, N.I.; KAROCHKIN, A.V.

Problem concerning the effect of electromagnetic transients
on the principles of the design of automatic control networks
for short-circuited asynchronous motors. Trudy Ural. politekh.
inst. no.106:28-42 '60. (MIRA 15:5)
(Electric motors, Induction)

SHUBENKO, V. A., kand. tekhn. nauk; ZENKIN, N. I., inzh.; KIRPICHNIKOV,
V. M., inzh.; AGAFONOV, Yu. P., inzh.

Some problems in the study of transient phenomena in asynchro-
nous motors. Izv. vys. ucheb. zav.: gor. zhur. no.10:125-137
'61. (MIRA 15:10)

1. Ural'skiy politekhnicheskii institut imeni S. M. Kirova
(for Shubenko, Zenkin, Kirpichnikov). 2. Kurganskiy mashino-
stroitel'nyy institut (for Agafonov). Rekomendovana kafedroy
elektrifikatsii promyshlennykh predpriyatiy Ural'skogo poli-
teknicheskogo instituta.

(Electric motors, Induction)
(Automatic control)

ZENKIN, N.I., inzh.; KOKOVIKHIN, V.A., inzh.; KIRPICHNIKOV, V.M., inzh.

Using the mathematical modeling method for studying the electromagnetic transient performance of symmetrical asynchronous motors.

Izv. vys. ucheb. zav.; gor. zhur. no.11:151-161 '61. (MIRA 15:1)

1. Ural'skiy politekhnicheskii institut imeni S.M.Kirova. Rekomendovana vychislitel'nyy tsentrom Ural'skogo politekhnicheskogo instituta.

(Electric motors, Induction)

ZENKIN, N.I., assistant; KIRPICHNIKOV, V.M., assistant

Study of electromagnetic transient processes in asynchronous
two-phase symmetric minature machines. Izv. vys. ucheb. zav.;
gor. zhur. 6 no.3:105-110 '63. (MIRA 16:10)

1. Ural'skiy politekhnicheskij institut imeni S.M.Kirova.
Rekomendovana kafedroy vychislitel'noy tekhniki.

ZENKIN, N.I., inzh.; KIRPICHNIKOV, V.M., kand. tekhn. nauk

Combined method of determining the shock magnitude of electromagnetic moments in electric induction drive mechanisms.

Izv. vys. ucheb. zav.; gor. zhur. 6 no.10:165-172 '63.

(MIRA 17:2)

1. Ural'skiy politekhnicheskii institut imeni S.M. Kirova.

L 01287-67 EWT(1)

ACC NR: AT6010477

SOURCE CODE: UR/2694/64/000/138/0152/0161

AUTHOR: Zenkin, N. I.

ORG: none

TITLE: Maximum asymmetric transient current and torque in reversible induction-motor drives with high-speed control

29
SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiy institut, Trudy, no. 138, 1964. Issledovaniye elektromagnitnykh i elektromekhanicheskikh protsessov mashin peremennogo toka (Research on electromagnetic and electromechanical processes in a. c. machines), 152-161

TOPIC TAGS: electric motor, induction motor, industrial automation

ABSTRACT: Essentially, a review is presented of 8 published Soviet works which also include some earlier author's articles. The maximum asymmetric current and electromagnetic torque that occur in large 3-phase induction motors upon a counter-torque braking (plugging) are analytically evaluated. Estimates for type A motors indicate that the maximum current occurs under 180-electrical-degree plugging

Card 1/2

L 01287-67

ACC NR: AT6010477

conditions and may reach 14—10 times normal (switching interruption time, 4 μ to 40 μ). Thus, with automatic braking equipment, the current peaks may reach values as high as 3 times sustained short-circuit value. Plots of current and torque vs. switching angle are shown, as are 4 oscillograms of the plugging process in an A-51-6 motor. Quick field discharge during the circuit interruption is suggested as a remedy for the undesirable strong mechanical shocks in the drive. One such field-discharge arrangement has been adopted at the Mechanical Department of the Berezniki Soda Plant. Orig. art. has: 3 figures and 18 formulas.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 008

Card 2/2 mjs

KIRPICHNIKOV, V.M.; ZENKIN, N.I.; TOMASHEVSKIY, N.I.

Study of the dynamics of the start of squirrel-cage induction
motors using analog computers. Trudy Ural. politekh. inst.
no. 138:162-172 '64 (MIRA 19:1)

ZENKIN, N.I., inzh.; KIRPICHNIKOV, V.M., kand.tekhn.nauk; TOMASHEVSKIY, N.I.,
inzh.; SHUBENKO, V.A., doktor tekhn.nauk; YASENEV, N.D., inzh.

Calculating dynamic and static characteristics of asynchronous
motors with the help of analog computers. Izv.vys.ucheb.zav.;
gor.zhur. 8 no.11:149-157 '65.

(MIRA 1961)

1. Ural'skiy politekhnicheskii institut imeni Kirova. Rekomendovana kafedroy vychislitel'noy tekhniki. Submitted October 3, 1964.

ZENKIN, O.V.

Connectivity of algorithms for the derivation of solutions to certain parabolic and elliptic equations. Dop. AN URSR no.1:23-26 '64.

(MIRA 17:4)

1. Dnepropetrovskiy gosudarstvennyy universitet. Predstavleno akademikom AN UkrSSR I.Z.Shtokalo.

ACCESSION NR: AP4010056

S/0021/64/000/001/0023/0026

AUTHOR: Zenkin, O. V.

TITLE: The connection of the algorithms of the constructions of solutions of some equations of the parabolic and elliptic types

SOURCE: AN UkrRSR. Dopovid1, no. 1, 1964, 23-26

TOPIC TAGS: boundary value, boundary condition, Poisson equation, Gauss-Seidel method net

ABSTRACT: The connection of the algorithms of the solution of a boundary value problem and the definitions of conditions is examined by the method of nets with subsequent use of the Gauss-Seidel method. Orig. art. has 23 formulas.

ASSOCIATION: Dnipropetrovs'ky'y derzhavny'y universy*tet (Dnepropetrovsk State University)

SUBMITTED: 26Dec62

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 001

Card 1/1

I. 2645-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) IJP(c) GG/BB
 ACCESSION NR: AP5025743 UR/0286/65/000/018/0091/0092 56
 681.142-523.8 54
 AUTHOR: Vedeshnikov, V. A.; Volkov, A. F.; Zenkin, V. D.; Trapeznikov, V. A.; 13
 Turkovskaya, T. A. 41/
 TITLE: A digital computer with programmed circuit control. Class 42, No. 174844
 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 91-92
 TOPIC TAGS: digital computer, automatic computer programming, self adaptive control 16, 44
 ABSTRACT: This Author Certificate introduces a digital computer with programmed circuit monitoring. The unit contains a control counter, instruction memory, instruction readout amplifier, instruction register, operation decoder, central control unit, control pulse amplifiers, arithmetic unit, working storage, and an input output device. The installation is designed for automatically and accurately finding elements that fail. The computer contains a microoperation zone decoder and a pilot signal shaper which are connected together and to the readout amplifiers for the instruction memory. The outputs from the pilot signal shaper are connected to the central control unit, the local control unit, and the control signal amplifier

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L 2645-66

ACCESSION NR: AP5025743

unit. The computer also contains a microcontrol unit which is connected to the central control unit and to the control signal amplifiers, and a device for recording the point of failure, which is connected to the instruction memory readout amplifiers. A modification of this computer is designed for transition from macrooperation to microoperation conditions to improve the resolution of diagnostic tests. The microcontrol unit in this computer contains the first gate for interpretation of operating conditions. The inputs to this gate are connected respectively to the unit for sampling commands from the instruction memory and to the flip-flop for storage of operating conditions. The output from this flip-flop is connected to a delay circuit through gates which are connected to the outputs from the microoperation zone decoders which correspond to microoperations for setting the flip-flops of the computer. The delay circuit is connected through a gating assembly to the outputs from the control signal amplifiers. The output from the delay circuit is connected to the input of the instruction sampler. The second gate for interpretation of operating instructions is connected to the input of the delay circuit. The inputs to this gate are connected respectively to the instruction sampler and to the inverse output from the flip-flop for storage of operating conditions through the gate for transition from macrocontrol to microcontrol conditions. The output from the delay circuit is connected in parallel with the output from the first gate for

Curd 2/3.

L 2645-66

ACCESSION NR: AP5025743

2

interpretation of operating conditions. In a second modification of this computer, the number of points which can be monitored is increased by using an input register in the microoperation zone decoder. This register is connected to the decoder, and the outputs from the decoder are connected to the control points. In a third modification of this computer, indication of a point of failure is simplified by using an input register in the failure indicator with binary-digital code for the number of the non-operative element. This register is connected to decimal indicators through a decoder which converts the register code into decimal positional notation. A fourth modification of this computer is designed for automatically and accurately locating points of failure. The pilot signal shaper in this computer contains gates with inputs connected respectively to the microoperation zone decoder and to the readout amplifiers for the instruction memory. The outputs from these gates are connected to the elements to be monitored. [14]

ASSOCIATION: Institut avtomatiki i telemekhaniki (Institute of Automation and Telemechanics)

SUBMITTED: 27Jun64

ENCL: 00

SUB CODE: DP

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4124

Card 3/3

ACC NR: AR6035231

SOURCE CODE: UR/0372/66/000/008/G017/G018

AUTHOR: Zenkin, V. I.; Savin, O. R.; Chertkov, I. Ya.; Postoy, V. A.

TITLE: Designing a computer of an extremal regulator for heat processes

SOURCE: Ref. zh. Kibernetika, Abs. 8G107

REF SOURCE: Pribory i ustroystva sredstv avtomatiki i telemekhan. Resp. mezhved. nauchno-tekhn. sb., vyp. 1, 1965, 99-108

TOPIC TAGS: heat regulation, computer, extremal heat regulator

ABSTRACT: Systems of extremal regulation are investigated which consist of:
1) a nonlinear inertialess element whose input value x (regulating action) and output value y (static value of extremum—EV) are coupled by the equation

$$y = F[x, a(t), b(t), \dots, e(t)],$$

where $a(t), b(t), \dots, e(t)$ are the variable parameters which determine the extremum static characteristic; 2) a linear element whose input value y and output

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UDC: 62-506

ACC NR. AR6035231

value θ (current value of EV) are coupled by the differential equation

$$a_n \frac{d^n \theta}{dt^n} + \dots + a_1 \frac{d\theta}{dt} + \theta = k y;$$

3) a pickup unit for measuring the current value of EV; and 4) a step-type extremal regulator. To decrease the influence of linear element inertia, a static value of EV is introduced in the logic element of the extremal regulator, i. e., a regulation law is constructed in the form

$$\Delta x_{n+1} = \alpha \operatorname{sign} \Delta y_n \operatorname{sign} \Delta x_n,$$

where Δy_n is the increment of the value of EV. For the case when transients in the linear part of the object of regulation and in the pickup unit are described by differential equations of the first order, an algorithm of the operation of the extremal regulator computer is derived. It is shown that the value of $\operatorname{sign} \Delta y_n$ required for realizing the regulation law can be calculated on the basis of signal increments at the pickup output. A computer circuit which uses summing transformers with a phase-sensitive amplifier is described. To improve the noise immunity of the extremal regulation system, it is necessary to calculate the increment of EV on the basis of the increments of the signal from the pickup which

Card 2/3

ACC NR: AR6035231

must be averaged per regulation cycle. The paper has four illustrations and a bibliography of 10 titles. [Translation of abstract] [DW]

SUB CODE: 09/

Card 3/3

ZENKIN, V.I.; POSTOY, V.A.; POPOVA, Z.I.; SAVIN, O.R.

Optimalizing controller for inertial processes. Biul.tekh.-ekon.
inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. 18 no.1:36-37
Ja '65. (MIRA 18:4)

MARSHEV, V.S.; ZVANSKIY, G.Ye.; ZENKIN, V.L.

Results of industrial tests of the self-propelled SBU-2
percussion-rotary drilling rig. Trudy TSNII Podzemshakhtstroia
no.1:104-116 '62. (MIRA 16:8)

(Boring machinery—Testing)

ACC NR: AR6035275

SOURCE CODE: UR/0169/66/000/009/D016/D016

AUTHOR: Vasil'yev, A. V.; Shishkin, Ya. Ya.; Pechenkin, Ye. S.; Zenkin, Yu. S.

TITLE: Controlled directional reception in the study of the rim zone of the Caspian depression

SOURCE: Ref. zh. Geofizika, Abs. 9D105

REF SOURCE: Tr. Nizhne-Volzhsk. n. -i. in-t geol. i geofiz. vyp. 3, 1965, 131-136

TOPIC TAGS: seismic observation, controlled directional reception, profiling, disjunctive dislocation, geologic exploration/Caspian depression

ABSTRACT: Seismic observations were made using controlled directional reception in one and one-and-half stage continuous profiling. Distances between short points were 200—800 m, the magnitude of the summation base was 160—200 m, and groups of five seismographs per 12—25 m base were used. Results obtained at the Ural and Yeruslan area sections (northern part of the rim area) and at the Lamyshinskaya section are given. The high effectiveness of

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UDC: 550.834.5

ACG NR: AR6035275

the controlled directional reception in plotting salt and subsalt deposits and in identifying disjunctive dislocations is demonstrated. For complex areas, it is recommended that a system of double profiling be incorporated when using the controlled directional method and that parametric wells be drilled in the inside part of the rim zone. A. Titkov. [Translation of abstract]

[SP]

SUB CODE: 08/

Card 2/2

L 10198-00 BWT(M)/BWP(J)/BWA(C)

RPL RM

ACC NR: AP5028459

SOURCE CODE: UR/0286/65/000/020/0023/0023

AUTHORS: Gonkina, Ye. V.; Fal'kovich, M. I.; Artem'yev, A. A.; Zonkina, N. G.

ORG: none

TITLE: Method for obtaining caprolactam. Class 12, No. 175513 [announced by State Scientific Research and Planning Institute of the Nitrogen Industry and Products of Organic Synthesis (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 23

TOPIC TAGS: polymer, polymerization, catalyst, catalytic polymerization, catalytic regeneration, silver

ABSTRACT: This Author Certificate presents a method for obtaining caprolactam by passing nitrocyclohexane vapors and hydrogen gas over a dehydration catalyst—boric acid on silica gel at a temperature of 300—360C. To increase the yield of caprolactam and the degree of conversion of nitrocyclohexane

the catalytic promoter. ... as to insure its regeneration, silver is used as

SUB CODE: 11/ SUBM DATE: 16Jan65/

Card 1/1

UDC: 547.466.3.07

ZENKINA, T.A.; LOSKUTOVA, R.A.; DUBININA, A.P.; YEVSTAF'YEVA, L.I.;
SEROVA, N.N. (Kaliningrad)

Some problems in the etiology and clinical aspects of pressure
neuritis. Fel'd. i akush. 22 no.12:38-39 D '57. (MIRA 11:2)
(NEURITIS)

ZENKINA, T.A., meditsinskaya sestra; LOSKUTOVA, R.A., meditsinskaya sestra; DUBININA, A.P., meditsinskaya sestra; TROITSKAYA, G.A., meditsinskaya sestra; YEVSTAF'YENVA, L.I., meditsinskaya sestra (Kalininograd)

Neuritis of the median nerve caused by calcium chloride solution which accidentally penetrated the nerve trunk during parenteral infusion. Fel'd.1 akush. no.5:35-36 My '55. (MLRA 8:7)

(NERVES, MEDIAN, dis.,

neuritis, caused by calcium chloride penetration)

(NEURITIS,

median, caused by calcium chloride penetration)

(CALCIUM,

chloride, penetration in median nerve trunk, causing neuritis)

(CHLORIDES,

calcium chloride, penetration in median nerve trunk, causing neuritis)

(INFUSION, PARENTERAL, compl.,

calcium chloride, penetration in median nerve trunk, causing neuritis)

SIMANOVSKAYA, R.E.; rukovoditel' raboty; SHPUNT, S.Ya.; VODZINSKAYA, Z.V.;
KOKINA, Z.I.; PSTUKHOVA, M.G.; NAYDENOVA, V.A.; VAS'YANOV, V.P.;
VASIL'YEV, N.F., master; ORLOV, N.N., starshiy apparatchik;
NAUMOV, P.M., starshiy apparatchik; TRUPIN, M.P., starshiy apparatchik;
VOLKOVA, V.M., starshiy apparatchik; ZORINA, Ye.A.; KIROVA, V.A.;
LUTOVA, Z.L., ZENKINA, Z.P., laborant; SEMOKHINA, L.A., laborant;
NIKITINA, N.A.

Phosphogypsum and its use in the manufacture of sulfuric acid and
portland cement; small-scale operation at the pilot plant of the
Scientific Research Institute of Fertilizers and Insectifuges.
[Trudy] NIUIF no.160:59-76 '58. (MIRA 12:8)

1.Sotrudniki Nauchnogo instituta po udobreniyam i insektofungisidam
(for Simanovskaya, Shpunt, Vodzinskaya, Kokina, Pastukhova,
Naydenova). 2.Zamestitel' nachal'nika 3-go tsekha Opytnogo zavoda
Nauchnogo instituta po udobreniyam i insektofungisidam (for Vas'yanov).
3.3-y tsekh Opytnogo zavoda Nauchnogo instituta po udobreniyam i
insektofungisidam (for Vasil'yev, Orlov, Naumov, Trupin, Volkova,
Zorina, Kirova, Lutova, Zenkina, Samokhina). 4.TSentral'naya
analiticheskaya laboratoriya Opytnogo zavoda Nauchnogo instituta po
udobreniyam i insektofungisidam (for Nikitina).
(Gypsum) (Portland cement) (Sulfuric acid)

ZENKIS, A.Ya.

We have fulfilled our obligations. Avtom., telem. i sviaz' 7 no.1:
23 Ja '63. (MIRA 16:2)

1. Zamestitel' nachal'nika sluzhby signalizatsii i svyazi Kazakhskoy
dorogi.

(Railroads—Employees)

BOYKO, A.; ZENKIS, Ya.

"Development of the fuel-power industry in the U.S.S.R." by
A.F.Zasiad'ko. Reviewed by A.Boiko, Ia.Zenkis. Top.ekon.
no.7:122-126 J1 '60. (MIRA 13:5)
(Fuel) (Electric power production)
(Zasiad'ko, A.F.)

ZENKIS, Ya. S.

Dissertation defended for the degree of Doctor of Economic Sciences at the
Institute of World Economics and International Relations

"Methodological Basis for Planning the Long-Term Development of the Coal Industry of
the USSR."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

ZENKIS, Ya.S.

Basic trends in future expansion and distribution of enterprises
in the U.S.S.R. coal mining industry. Ugol' 33 no.10:36-39
0 '58. (MIRA 11:11)

(Coal mines and mining) (Industries, Location of)

BUDNITSKIY, Iosif Moiseyevich; ZENKIS, Ya.S., doktor ekon. nauk,
retsenzent; RODIONOVA, N.P., ved. red.

[The mining industry in the system of the national economy
of the U.S.S.R.] Gornaya promyshlennost' v sisteme narod-
nogo khoziaistva SSSR. Moskva, Nedra, 1965. 101 p.
(MIRA 18:4)

~~ZENKIS, Ya.S.~~

BUDNITSKIY, Iosif Moiseyevich, dotsent, kandidat ekonomicheskikh nauk;
~~ZENKIS, Ya.S.~~, redaktor; FEYTEL'MAN, N.G., redaktor; IL'INSKAYA,
G.M., tekhnicheskij redaktor

[Distribution of the coal industry and the location of coal consumers in the U.S.S.R.] Razmeshchenie ugol'noi promyshlennosti i raionirovanie potrebleniia uglei v SSSR. Moskva, Ugletekhizdat, 1955. 86 p.

(MLRA 9:2)

(Coal mines and mining) (Coal trade)

ZENKIS, Yan Samoylovich; MIROSHNICHENKO, V.D., red.izd-va; MANVELOVA, Ye.S., tekhn.red.; BERESLAVSKAYA, L.Sh., tekhn.red.

[Coal fields for coking; technical and economic factors determining the selection of coal fields for coking] Ugol'nye bazy dlia koksovania; tekhniko-ekonomicheskie osnovy vybora ugol'nykh baz dlia koksovania. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960. 132 p. (MIRA 13:5)
(Coal--Carbonization)

ZENKL, V.; STARKA, L.

Adrenal cortex tumor with isosexual precocious pseudopuberty
in a 2-year-old boy. Cesk. pediat. 20 no.2:143-149 F '65

1. Detska klinika lekarske fakulty hygienicke Karlovy Uni-
versity v Praze (prednostka: prof.dr. J. Cizkova-Pisarovicova,
DrSc.) a Vyzkumny ustav endokrinologicky v Praze (reditel:
doc. dr. K. Silink).

ZENKL, Vladimir, FRANK, Miroslav

Auricular flutter in a young infant. Cesk. pediat. 17 no.3:258-261
Mr '62.

1. Detska klinika KU v Hradci Kralove, prednosta prof. MUDr. Jiri
Blecha.

(AURICULAR FLUTTER in inf & child)

ZENKLETER, M.; GRZECZYNSKI, T.

ZENKLETER, M.; GRZECZYNSKI, T. Elements influencing the result of the research
on the endurance of glued joints. p. 76.

Vol. 7, no. 3, Mar. 1956

PRZEMYSŁ DRZEWNY

TECHNOLOGY

Warszawa, Poland

So: East European Accession Vol. 6, no. 2, 1957

L 34688-66 EWT(1) GW

ACC NR: AP6025862

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AUTHOR: Babuska, Vladislav; Ruprechtova, Libuse; Zenklova, Olga

ORG: Geophysical Institute, CSAV, Prague

TITLE: East-alpine earthquake of 2 December 1963

SOURCE: Studia geophysica et geodastica, v. 9, no. 3, 1965, 302-305

TOPIC TAGS: earthquake, seismography, physical geology

ABSTRACT: This article presents a brief evaluation of the available macroseismic material on the earthquake that occurred on 2 Dec 63, which had its focus ($\phi = 47.9^\circ\text{N}$, $= 16.4^\circ\text{E}$) 40 km south of Vienna, and deals with the relation between the shape of the macroseismic field and the geological structure of the quaked area. The authors thank Doctor J. Vasek and Engineer V. Karnik for their valuable advice. They also thank their Austrian, German, and Hungarian colleagues for the macroseismic material they supplied. Orig. art. has: 2 figures. [Orig. art. in Eng.] [JPRS: 32,859]

SUB CODE: 08 / SUBM DATE: 27Oct64 / ORIG REF: 006

Card 1/1 *12 R*

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Proizvodnja. Vol. 4, no. 3/4, Sept. 1953. Ljubljana.)

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Uncl.

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red.

[Erosion control in White Russia] Bor'ba s eroziiei pochv v Belorusskoi SSR. Minsk, Gos.izd-vo sel'khoz. lit-ry BSSR, 1962. 39 p.
(MIRA 15:11)

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GVAMICHAVA, A.R.; TELIA, A.V.; ZENIKO, N.I.

[Bezoars of stomach and intestines in man] Bezoary zheludka i
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Comparison of clinical roentgenological data after resection of
the stomach in peptic ulcer. Khirurgia 36 no.2:27-31 F '60.

(MIRA 13:12)

(STOMACH--SURGERY)

KASHIRSKIY, Yu.A., dotsent, kand.tekhn.nauk; ZENKOV, B.K., student;
PAKIN, M.A.

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inst. no.110:22-26 '61. (MIRA 14:7)
(Reinforced concrete--Testing)

AVDEYEV, Yu.G.; VORONIN, V.S.; KOROSTYLEV, N.P.; SMIRNOV, V.G.;
PUSTOVALOV, A.I.; CHEBOTYREV, B.A.; ZENKOV, B.N.; KARABACH, T.L.

Determining the efficiency of various ways of charging boreholes
along the contour of a mine working. Shakh. stroi. 8 no.10:
19-21 0 '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy
metallurgii (for Avdeyev, Voronin, Korostylev, Smirnov).
2. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo
Soyuza Zyryanovskogo kombinata (for Pustovalov, Chebotyrev,
Zenkov, Karabach).

KALLISTOV, P.L.; ZENKOV, D.A.; PROKOF'YEV, A.P. Prinimali uchastiye:
BOGDANOV, F.M.; BORZUNOV, V.M.; BURYBLIN, A.V.; DROZDOV, M.D.;
YEROFEYEV, B.N.; KOMISSAROV, A.K.; KOGAN, I.D.; LYUBIMOV, I.A.;
MIRLIN, R.Ye.; ROKHLIN, M.I.; SERGEYEV, P.V.; SEMENOV, A.D.;
FROLOV, V.V.; NEMANOVA, G.F., red. izd-va; GORDIYENKO, Ye.B.,
tekhn. red.

[Instructions for applying the classification of reserves to
primary gold deposits] Instruktsiia po primeneniiu klassifi-
katsii zapasov k korennyim mestorozhdeniam zolota. Moskva,
Gos. nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1955.
46 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennaya komissiya po zapa-
sam poleznykh iskopayemykh.
(Gold ores---Classification)

ZENKOV, D.A.
KHRUSHCHOV, N.A.; KOSOV, B.M.; POLIKARPOCHKIN, V.V.; BRITAYEV, M.D.; TARKHOV,
A.G.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T.,
zamestitel' glavnogo red.; YEROFAYEV, B.N., red.; ZENKOV, D.A., red.;
KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.,
YAKZHIN, A.A., red.; VERSTAK, I.V., red. izd-va; AVERKIYEVA, T.A.,
tekhn. red.

[Prospecting for molybdenum, tungsten, tin, bismuth, antimony,
and mercury deposits] Razvedka mestorozhdenii molibdena, vol'frama,
olova, vismута, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo
lit-ry po geol. i okhrane neдр, 1957. 130 p. (Metodicheskie ukazaniia
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(Ore deposits) (Prospecting)

ZENKOV, D.A.

Methods for calculating spacing between exploratory wells. Sov.
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1. Vsesoyuznyy institut mineral'nogo syr'ya.
(Prospecting)

ZENKOV, D.A.

Some characteristics of prospecting and evaluation of discontinuous
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1. Moskovskiy geologorazvedochnyy institut.

VOLODOMONOV, N.V., kand.tekhn.nauk; ZENKOV, D.A., kand.geol.-mineral.nauk;
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Review of V.V.Pomerantsev's book "Estimation of ferrous and
nonferrous metal ore deposits." Gor. zhur. no.9:78-79 S
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Improving sampling methods for mining operations. Sov.geol. 5 no.5:
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1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Ores--Sampling and estimation)

RODIONOV, G.G.; ROMENSON, B.M.; BRITAYEV, M.D.; KREYTER, V.M., glavnyy red.;
SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFKIEV, B.N., red.;
ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.;
SMIRNOV, V.I., red.; KHRUSHCHEV, N.A., red.; YAKZHIN, A.A., red.;
MARKOV, P.N., red.; OVCHINNIKOVA, S.V., red. izd-va; AVERKIEVA,
T.A., tekh. red.

[Prospecting for mica deposits] Razvedka mestorozhdenii sliudy..
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр,
1957. 56 p. (Metodicheskie ukazaniya po proizvodstvu geologo-
razvedochnykh rabot, no.4). (MIRA 11:1)

(Mica ores) (Prospecting)

ROZHKOV, I.S.; RUSANOV, B.S.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., red., vypuska; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; VLASOVA, S.M., red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Methodological instructions on geological prospecting] Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. No. 1 [Prospecting for alluvial gold, platinum, tin, tungsten, titanium, tantalum, and niobium] Razvedka rossyynykh mestorozhdenii solota, platiny, olova, vol'frama, titana, tantala i niobiia. 1957. 108 p. (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Prospecting)

zenkov, D.A.

BASHARKEVICH, I.D.; ANTROPOV, A.N.; KUSOV, N.I.; DYUKOV, A.I.; SPERANSKIY, M.A.; KREYTER, B.M., glavnyy red.; SHATALOV, Ye.T., zastititel' glavnogo red.; YEROFEEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; NEKIPELOV, V.Ye., red.; BEREZOVSKAYA, L.I., red. izd-va; PEN'KOVA, S.A., tekhn. red.

[Prospecting for coal and oil shale deposits] Razvedka mestorozhdenii uglei i goriuchikh slantsev. Moskva, Gos. nauchn.-tekhn. izd-vo lit-ry po geologii i okhrane neдр, 1957. 61 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.9).

(Coal--Geology) (Oil shales)

(MIRA 11:4)

GIMMEL'FARB, B.M.; KREYTER, B.M., glavnyy red.; SHATALOV, Ye.T., zastititel' glavnogo red.; YEROFEEV, B.N., red.; ZENKOV, D.A., red.; KRASHNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, V.I., red.; YAKZHIN, A.A., red.; MARKOV, P.N., red.; VERSTAK, G.V., red.; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for phosphorite deposits] Razvedka mestorozhdenii fosforitov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр. 1957. 65 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.5). (MIRA 11:1)

(Phosphorites) (Prospecting)

CHERNYSHEV, G.B.; BRITAYEV, M.D.; TARKHOV, A.O.; SHCHERBAKOV, A.V.; KRYTER, V.M., glavnyy red.; SHATALOV, Ye.T. zamestitel' glavnogo red.; YEROFYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; MUKHIN, S.S., red.; AVMERKILEVA, T.A., tekhn. red.

[Prospecting for ferrous metal deposits] Razvedka mestorozhdenii chernykh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр, 1957. 102 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.11). (MIRA 11:1)
(Iron ores) (Prospecting)

15-57-1-946

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,
p 151 (USSR)

AUTHOR: Zenkov, D. A.

TITLE: The Precision of Exploratory Sections (O tochnosti
razvedochnykh razrezov)

PERIODICAL: Sov. Geologiya, Nr 49, 1955, pp 146-165.

ABSTRACT: Exploratory sections are distinguished from sections that accompany geologic maps by their greater precision, by greater objectivity, and by a more specific purpose. The precision of exploratory sections is variable and depends on the complexity of the geological structure of the area and on the procedure employed in making the survey. Using a comparative method of determining precision, the author recommends the use of a scale of relative geological precision for sections, providing different methods for constructing them (by continuous and direct tracing of the outlines of ore bodies or by different methods of geological interpretation or

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15-57-1-946

The Precision of Exploratory Sections (Cont.)

extrapolation) and also a scale of relative exploratory precision for sections depending on the nature and quality of mining operations and drilling (sections constructed chiefly from mining operations, fully or incompletely embracing intersections of ore bodies, and sections constructed from curved or noncurved drill holes, with complete or partial recovery of cores, etc.). A combined use of scales permits one to obtain a picture of the general geological-exploration precision for the sections, but it is not possible to unite both scales into one. The scale for geological precision may be used for the concentration of sites of exploratory operations, and the scale of exploratory precision may be used for evaluating the quality of drilling operations. Both scales may be used for computing reserves to evaluate the reliability of the latter.

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A. P. P.

ZENKOV, D.A.

BOZINSKIY, A.P.; BRITAYEV, M.D.; KOMISSAROV, A.K.; KATKOVSKIY, G.S.; SEDOVA, V.I.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zastititel' glavnogo red.; YEROFEEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; OVCHINNIKOVA, S.V., red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for gold ore deposits] Razvedka zolotorudnykh mestorozhdenii. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр, 1957. 103 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut mineral'nogo syria. Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.1). (MIRA 11:1)

(Gold ores) (Prospecting)

ROZHKOV, I.S.; BUSANOV, B.S.; KRKYTER, V.M., glavnyy red.; SHATALOV, Ye.T.,
zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.;
KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.;
KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; VLASOVA, S.M., red.;
AVMERKIYEVA, T.A., tekhn. red.

[Prospecting for placer deposits of gold, platinum, tin, tungsten,
titanium, tantalum, and niobium] Razvedka rossypnykh mestorozhdenii
zolota, platiny, olova, vol'frama, titana, tantala i niobia. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр, 1957,
108 p. (Metodicheskiy ukazaniia po proizvodstvu geologo-razvedochnykh
rabot, no.12). (MIRA 11:1)

(Ore deposits)

ZENKOV, D.A.; SEMENOV, K.L.

Vector method for outlining ore bodies. Razved. i okh. nedr 23 no.7:
20-32 J1 '57. (MLRA 10:11)

1. Institut tsvetnykh metallov i zolota.
(Ore deposits)

BOUS, A.A.; BRITAYEV, M.D.; GRECHUKHIN, N.A.; KREYTER, V.M., glavnyy red.;
SHATALOV, Ye.T., red.; YEROFEYEV, B.N., red.; ZEMKOV, D.A., red.;
KRASNIKOV, V.I., red.; NIFONTOV, R.V.; SMIRNOV, V.I., red.;
KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; PROKOF'YEV, A.P., red.;
NEMANOVA, G.F., red.izd-va; PEN'KOVA, S.L., tekhn.red.

[Prospecting for beryllium, tantalum, and niobium deposits] Razvedka
mestorozhdenii berillia, tantala i niobia. Moskva, gos. nauchn.-
tekhn. uzd-vo literatury po geologii i okhrane neдр. 1957 94 p.
(Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut mineral'nogo
syr'ia. Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh
rabot, no.2).

(MIRA 11:3)

(Ore deposits) (Prospecting)

ZENKOV, D.A.

Change of statistical indices of the contents of components in
relation to investigation methods in prospecting. Razved. i okh.
nedr 27 no.9:13-20 3 '61. (MIRA 17:2)

1. Moskovskiy geologorazvedochnyy institut.

AMIRASLANOV, A.A.; BRITAYEV, M.D.; BYBOCHKIN, A.M.; ZENKOV, D.A.; TARKHOV,
A.G.; TSYGANKO, N.I.; SHCHERBAKOV, A.V.; KREITER, V.M., glavnyy
red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.N.,
red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V.,
red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A.,
red.; VERSTAK, G.V. red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for copper, lead, and zinc deposits] Razvedka mesto-
rozhenii medi, svintsa i tsinka. Moskva, Gos. nauchno-tekhn. izd-vo
lit-ry po geol. i okhrane neдр, 1957. 135 p. (Metodicheskie ukasa-
niia po proizvodstvu geologo-razvedochnykh rabot, no.10).

(Ore deposits) (Prospecting)

(MIRA 11:4)

ZENKOV, D.A.

Four types of variability of ore bodies. Razved. 1 okh. nedr
21 no. 6:9-16 N-D '55. (MLRA 9:12)

(Ore deposits)

ZENKOV, F., kand.tekhn.nauk

Possibilities of increasing the footage drilled per bit.
Neftianik 5 no.8:29-30 Ag '60. (MIRA 14:8)

1. Groznenskiy neftyanoy institut.
(Oil well drilling)

ZENKOV, F.D.

TRUDY, V.S.; ZENKOV, F.D.

Variation curves of the speed of drilling with time intervals.
Trudy Groz.neft.inst. no.11:44-46 '53. (MIRA 3:6)
(oil well drilling)

FEDOROV, V.S.; ZENKOV, F.D.; DUDIN, V.F.

Laws governing the motion of the cutting instrument while entering
the rock. Dokl. AN Azerb. SSR 14 no.6:433-437 '58. (MIRA 11:7)

1. Groznenskiy neftyanoy institut. Predstavleno akademikom AN AzerSSR
Z.I. Khalilovym.

(Oil well drilling)

FEDOROV, V.S.; DUDIN, V.F.; ZENKOV, F.D.

Effect of the number of bit revolutions on the mechanical speed
of drilling in bulk destruction of rocks. Izv. vys. ucheb. zav.;
neft' i gaz no. 3:33-36 '58. (MIRA 11:7)

1. Groznenskiy neftyanoy institut.
(Oil well drilling)

DUDIN, V.F., ZENKOV, F.D., MOZHAROV, L.F.

New method of determining the elasticity (Young's modulus) of
rocks. Uch. zap. GGPI no.8:133-138 '58. (MIRA 13:8)
(Rocks) (Elasticity)

14(5)

AUTHORS:

Fedorov, V. S., Zenkov, F. D.,
Dudin, V. F.

SOV/152-59-3-8/25

TITLE:

The Connection Between the Number of Revolutions and the Axle Load, in Turbo Drilling, Which Guarantees an Efficacious Destruction of Rock (Zavisimost' mezhdru chislom oborotov i osevoy nagruzkoy pri turbinnom burenii, obespechivayushchey effektivnoye razrusheniye gornyykh porod)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Nefi' i gaz, 1959, Nr 3, pp 39-41 (USSR)

ABSTRACT:

At a constant temperature the stability τ of a loaded material depends on the weight σ :

$$\tau = A e^{-\alpha \sigma} \quad (1)$$

A and α are coefficients which depend on the material and the temperature. As all deformations that follow the law of Hooke have the same shape of the diagram and the same dependence of the deformation on time, an analogous function is to be expected for drilling. For the duration t_z of the contact of a milling cutter tooth with the rock the equation applies:

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The Connection Between the Number of Revolutions
and the Axle Load, in Turbo Drilling, Which Guarantees
an Efficacious Destruction of Rock

SOV/152-59-3-8/25

$$t_z = \frac{60 \frac{d}{D}}{zn} \quad (2)$$

d = diameter of the milling wheel, D = diameter of the drill
z = number of teeth of the milling wheel, n = number of
revolutions. The force with which the tooth of the milling
cutter hits the rock is proportional to the axle load (G):
 $\sigma = kG$ (3) (k = coefficient that depends on the construction
of the drill). Therefrom results the equation:

$$\frac{60 \frac{d}{D}}{zn} = A\sigma = kG \quad (4)$$

An increase of the number of revolutions must, therefore, be
accompanied by an increase of the axle load in order to obtain
the same effect of destruction. The connection between the
axle pressure and the number of revolutions appears from the
equation (3):

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The Connection Between the Number of Revolutions
and the Axle Load, in Turbo Drilling, Which Guarantees
an Efficacious Destruction of Rock

80V/152-59-3-8/25

$G \geq A_0 + B_0 \ln n$ (5), wherein $A_0 = \frac{\ln AD + \ln z - \ln d}{\alpha k}$ and

$B_0 = \frac{1}{\alpha k}$. The number of revolutions of turbo drills is determined
by the quantity Q of the scavenging liquid. Here, too, the axle
load must be increased when the supply of scavenging liquid is
increased. The connection appears from: $G \geq A_1 + B_0 \ln Q$ (6)

$A_1 = A_0 + B_0 \ln k_1$ (k_1 = coefficient that depends on the
construction of the turbo drill). When in hard rock and with a
given number of revolutions the load claimed in equation (5)
cannot be obtained, a drill with a higher tooth pitch is to be
applied. There are 2 figures and 4 Soviet references.

ASSOCIATION: Groznenskiy neftyanoy institut (Groznyy Institute for Mineral
Oil)

SUBMITTED: December 28, 1958

Card 3/3

ZENKOV, F. D.

"Combination Carrier for Moving Oil Derricks," Az. Neft. Khoz., No. 9, 1947;

ZENKOV, F. D.

~~USSR/Petroleum - Well Drilling~~
Drills, Oil Well

Sep 1947

"Combination Carrier for Moving Oil Derricks," F. D.
Zenkov, 1 p

"Azerbayadzhanskoye Neftyanoye Khozyaystvo" No 9

A short description of a device developed by GrozNeft
for quick and easy transportation of drilling derricks.

LC

29781

ZENKOV, F. D.

USSR/Petroleum - Oil Wells
Drills, Oil Well

Jan 1948

"Utilization of Various Models of Milling Gouges," V. S. Fedorov, F. D. Zenkov, Groznyy, 8 pp

"Neft Khozyay" No 1

In earlier article, "Use of Blade and Milling Gouges," Federov set up various conditions that would define the type of gouge to be used. Authors limit the field somewhat and discuss the conditions which would result in the selection of certain types of milling gouges for certain types of rock. Name some 15 different types of gouges. Also discuss some of the deficiencies of milling gouges.

P A 51T83

ZENKOV, F.

D

Trehsharoshechnyye dolota, oblasti primeneniya i ratsional'naya otrabotka ikh (Triple cutting chisels, field of application and their rationalized utilization) Moskva, Gostop-tekhnizdat, 1953. 167 p. illus., diags., tables. "Literatura": p. 166-167

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741.431

.25

ZENKOV, F.D.; SAVINA, Z.A., vedushchiy redaktor; TROFIMOV, A.V.,
tekhnicheskiiy redaktor.

[Three-cutter drill bits] Treksharoshechnye dolota, oblast'
primeneniia i ratsional'naia otrabotka ikh. Moskva, Gos.
nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry,
1953. 167 p. [Microfilm] (MLRA 7:12)
(Rock drills)

ZENKOV, F. D.

"Triple Cutting Bits," Moscow-Leningrad, 1953

XXX

BORISEVICH, Ye.S.; ZHILEVICH, I.I.; ARONOV, L.Ye.; ARSHVILA, S.V.;
ZABELIN, M.V.; Primali uchastiye: PEVZNER, B.N., konstruktor;
DUBROVINA, M.K.; konstruktor; ZENKOV, F.F., brigadir-mekhanik

The SEO-1 seismic electrographic oscillograph. Trudy Inst. fiz.
Zem. no.19:44-51 '61. (MIRA 15:3)
(Seismometers)

ACCESSION NR: AT4012709

S/2981/63/000/002/0028/0030

AUTHOR: Lekarenko, Ye. M.; Pokrovskaya, G. N.; Zenkov, G. P.; Sarul', L. A.;
Kolobnev, N. I.

TITLE: SAP made from secondary aluminum

SOURCE: Alyuminiyevy*ye splavy*. Sbornik statey, no. 2. Spechenny*ye splavy*.
Moscow, 1963, 28-30

TOPIC TAGS: powder metallurgy, sintered aluminum, aluminum powder, sintered aluminum
powder, primary aluminum, secondary aluminum, SAP

ABSTRACT: Grade A0 and A00 primary aluminum is normally used for manufacturing grade
APS aluminum powder. The problem of using aluminum powder made of grade ATsV second-
ary aluminum (1.1% Al_2O_3 ; 3.1% Si; 2.88% Cu; 1.56% Zn; 1.1% Fe; 0.01% Mn; 0.03% H_2O ;
the rest Al, with a specific gravity of 1.15) was solved by a series of tests investigating the
mechanical properties and corrosion resistance of such blanks. These tests showed that at
temperatures up to 350C, the ultimate strength of SAP from secondary aluminum containing
7% Al_2O_3 (45 kg/mm² at 20C and 15 kg/mm² at 300C) is higher than that of SAP from pri-
mary aluminum. The relative elongation (4% at 20C, 6% at 300C), on the other hand, was
lower than that of SAP from primary aluminum at temperatures up to 100-120C and higher at

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ACCESSION NR: AT4012709

120-500C. This resembles the behavior of Cu-alloyed SAP. The corrosion resistance of SAP made of secondary aluminum (3% NaCl + 0.1% H₂O₂ for 2 months) is lower than for SAP of primary aluminum, but higher than for alloy D16. Orig. art. has 2 figures and 1 table.

ASSOCIATION: none

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OTHER: 000

Card 2/2

ZENKOV, G. P.

PHASE I BOOK EXPLOITATION SOV/5685

20

Fridlyander, I. N., Doctor of Technical Sciences, and B. I. Matveyev, Candidate of Technical Sciences, eds.

Teploprochnyy material iz spechennoy alyuminiyevoy pudry [SAP]; sbornik statey (Heat-Resistant Material From Baked Aluminum Powder [SAP]; Collection of Articles) Moscow, Oborongiz, 1961. 122 p. Errata slip inserted. 3,550 copies printed.

Reviewers: M. F. Bazhenov, Engineer, and M. Yu. Bal'shin, Candidate of Technical Sciences; Ed.: M. A. Bochvar, Engineer; Ed. of Publishing House: S. I. Vinogradskaya; Tech. Ed.: V. I. Oreshkina; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE : This collection of articles is intended for scientific workers and engineers in the institute and plant laboratories of the metallurgical and machine-building industry; it may also be useful to instructors and advanced students.

COVERAGE: The 12 articles contain the results of research on the structure, properties, and manufacture of semifinished products
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Heat-Resistant Material From (Cont.)

SOV/5685

2-0

from sintered aluminum powder. The technology for the manufacture of aluminum powder and briquets is described as are sintering processes, and pressing, rolling, drawing, and sheet-stamping methods. The dependence of the properties of semifinished products on the aluminum-oxide content of the powder, on the degree of hot and cold deformation, and on the stresses of pressing is investigated. Also investigated are the mechanical and corrosive properties of sintered aluminum powder, the mechanism of hardening of sintered aluminum powder, the reasons for blister formation, and the possibility of recrystallization. Data on sintered aluminum alloys are included. No personalities are mentioned. References in the form of footnotes accompany the articles.

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SOV/5685

Murzov, A. I. [Candidate of Technical Sciences], S. I. Nomofilov [Engineer], and V. A. Shelamov [Engineer]. Rolling of Sheets From SAP
The work was carried out with the participation of Engineer R. P. Filimonova and Technicians V. I. Sverlov and O. A. Kolosov.

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Matveyev, B. I., N. A. Davydova, and I. R. Khanova. Study of the Effect of the Degree of Deformation on the Properties and Structure of Pressed Semifinished Products and Cold-Rolled Sheets From SAP
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L 4099Q-66 EWP(e)/ENT(m)/EWP(t)/ETI/EWP(k) IJP(c) JH/JD
ACC NR: AT6024932 (A,N) SOURCE CODE: UR/2981/66/000/004/0214/0218 55

AUTHOR: Lekarenko, Ye. M. (deceased); Stepanova, M. G.; Sarul', L. A.; Kolobnev, P. I.; Zenkov, G. P. BH

ORG: none

TITLE: Aluminum powder for high-strength SAP alloy

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 214-218

TOPIC TAGS: aluminum alloy, aluminum powder, TENSILE STRENGTH, high strength alloy, sintered aluminum powder, ~~sintered aluminum powder alloy~~, metal property/SAP aluminum alloy

ABSTRACT: SAP-1 and SAP-2 alloys made of APS-1 and APS-2 grade aluminum powder (respective content of aluminum oxide 6—9 and 9—13%) have a tensile strength of 26—32 kg/mm² and 32—38 kg/mm², respectively. By increasing the content of aluminum oxide to 23% the strength of alloys can be increased up to 45 kg/mm². Two new grades of aluminum powder were developed: APS-3 with 13—18% aluminum oxide and APS-4 with 18—23% aluminum oxide. Since the content of aluminum oxide depends on the fineness of the powder, which in turn depends on the duration of grinding (APS-1 and APS-2 powders require 25 and 35 hr grinding), the grinding process was modified to accelerate oxidation and lower the consumption of stearic acid (which is added to prevent the agglomeration of powder particles). SAP alloys made from APS-3 and APS-4 powders.

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ACC NR: AT6024932

have a tensile strength of 40—50 kg/mm² at room temperature and 13—15 kg/mm² at 500C, which makes it possible to use these alloys in structures operating at 350—500C instead of steels and titanium alloys. Orig. art. has: 2 figures and 1 table. [TD]

SUB CODE: 11 / SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 5057

Card 2/2 11b